TITLE: APPARATUS AND METHOD FOR GENERATING TRANSFORMS INVENTOR'S NAME: SIVA SIMANAPALLI, ET AL.

INVENTOR'S NAME: SIVA SIMANAPALLI, ET AL. SERIAL NO.: 10/815,463 DOCKET NO.: 884.C01US1

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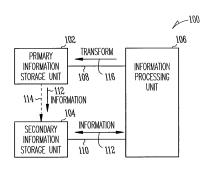


Fig. 1

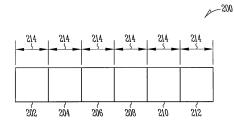
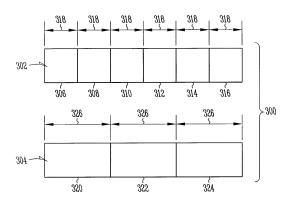


Fig.2

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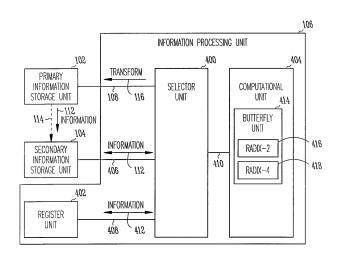


Fig. 4

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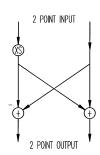


Fig.5

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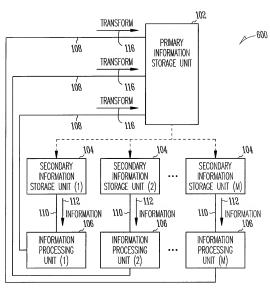


Fig. 6

TITLE: APPARATUS AND METHOD FOR GENERATING TRANSFORMS INVENTOR'S NAME: SVM SIMANAPALLI, ET AL. SERIAL NO.: 10/815,463 DOCKET NO.: 884.C01US1

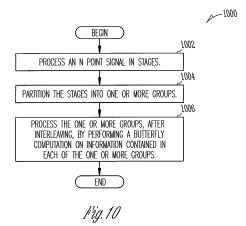
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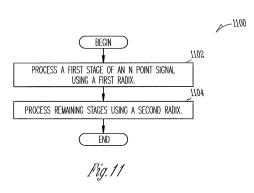
~700 BEGIN 702 PARTITION DATA IN A PRIMARY INFORMATION STORAGE UNIT INTO ONE OR MORE FIXED LENGTH BLOCKS. 704 STORE AT LEAST ONE OF THE ONE OR MORE FIXED LENGTH BLOCKS IN A SECONDARY INFORMATION STORAGE UNIT. 706 PROVIDE THE AT LEAST ONE OF THE ONE OR MORE FIXED LENGTH BLOCKS USING A BUTTERFLY COMPUTATION TO FORM PROCESSED INFORMATION. 805 STORE THE PROCESSED INFORMATION IN THE PRIMARY INFORMATION STORAGE UNIT. END

TITLE: APPARATUS AND METHOD FOR GENERATING TRANSFORMS INVENTOR'S NAME: SIVA SIMANAPALLI, ET AL. SERIAL NO.: 10/815,463 DOCKET NO.: 884.C01US1 REPLACEMENT SHEET 7/10 \_\_800 BEGIN 802 FORM TRANSFORM OF AN N POINT SIGNAL WHERE N IS AN INTEGER BY A FIRST METHOD IF THE LOGARITHM OF N TO THE BASE FOUR IS AN INTEGER AND N IS LESS THAN OR EQUAL TO A PARTICULAR VALUE. 804 FORM THE TRANSFORM OF THE N POINT SIGNAL BY A SECOND METHOD IF THE LOGARITHM OF N TO THE BASE FOUR IS AN INTEGER AND N IS GREATER THAN THE PARTICULAR VALUE. 806 FORM THE TRANSFORM OF THE N POINT SIGNAL BY A THIRD METHOD IF THE LOGARITHM OF N TO THE BASE FOUR IS NOT AN INTEGER, BUT THE LOGARITHM OF N TO THE BASE TWO IS AN INTEGER. FND Fig. 8 A-900 BEGIN 902 CALCULATE A FAST FOURIER TRANSFORM OF THE N POINT SIGNAL BY PROCESSING THE N POINT SIGNAL USING ONE OR MORE RADIX-4 BUTTERFLY COMPUTATIONS PERFORMED USING ONE PROCESSING UNIT. END Fig. 9

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REPLACEMENT SHEET

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1200

COMMUNICATION UNIT
1204
ANTENNA
102
PRIMARY INFORMATION STORAGE UNIT
104
SECONDARY INFORMATION STORAGE UNIT
106
INFORMATION PROCESSING UNIT

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REPLACEMENT SHEET

10/10

1300

1202

COMMUNICATION UNIT COMPUTER SYSTEM

Fig. 13

1400

